

ABSTRACT

A method and apparatus provide an integrated circuit package with improved heat dissipation and easier fabrication. The integrated circuit package includes a thinned semiconductor die attached to a heat spreader using a thermally conductive material. The thinned die reduces the thermal resistance of the die/heat spreader combination to improve heat extraction from the die as well as eliminating processing steps in fabrication. Additionally, the thinned die becomes more compliant as it takes on the thermal/mechanical properties of the heat spreader to reduce stress-induced cracking of the die.

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